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**Notice of Allowability**

Application No.

09/882,129

Examiner

Joshua Kading

Applicant(s)

LI, SHUO-YEN ROBERT

Art Unit

2661

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 9-11-01.
2. ☒ The allowed claim(s) is/are 22-42; renumbered 1-21 respectively.
3. ☒ The drawings filed on 6-15-01 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 6-15-01
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date 03/2005
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
**BOB PHUNKULH**  
**PRIMARY EXAMINER**

### EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

5 submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in several telephone interviews with Mr. Poh Chua on March 3, 2005 through March 8, 2005 and with Mr. Lawrence Eisen on March 15, 2005.

The application has been amended as follows:

10 Claim 22, line 2 "the service of any connection" should be changed to --a service of a connection--.

Claim 22, line 3 "the condition" should be changed to --a condition--.

Claim 22, line 5 should have a colon inserted after the word "comprising".

Claim 22, line 12 "the ordering" should be changed to --an ordering--.

15 Claim 25, line 3 states, "the input nodes". The word "the" in front of "the input nodes" should be deleted. The change should look like --input nodes--.

Claim 25, line 3 states, "the output nodes". The word "the" in front of "the output nodes" should be deleted. The change should look like --output nodes--.

Claim 25, line 5 states, "each node is". This should be changed to --each of the  
20 input nodes and the output nodes is--.

Claim 39, line 2 states, "the service of any connection". This should be changed to --a service of the connection--.

Claim 39, line 4 should have a colon inserted after the word “comprising”.

5 Claim 42, lines 2-3 state, “the input nodes”. The word “the” in front of “the input nodes” should be deleted. The change should look like --input nodes--.

Claim 42, line 5 states, “each node is”. This should be changed to --each of the

Specification, page 13, line 15, "FIG. 28A" should be changed to --FIG. 28B--.

Specification, page 14, line 1, "FIG. 30A" should be changed to --FIG. 30B--.

Specification, page 17, before line 16 and after line 16, the following should be added --FIGS. 56A-D depict balanced binary trees with different number of leaves.--

20 *Allowable Subject Matter*

The following is an examiner's statement of reasons for allowance: Claims 22-42 are allowable because the prior art of record, in combination with the other claim

limitations, fails to teach, that a service of a connection request is implemented based on the following constraints "(1) the m active input addresses are consecutive upon a rotation of an ordering of the N input addresses, and (2) for any two active input addresses i and j and any two active output addresses p and q such that i is being  
5 connected to p and j is being connected to q, if i precedes j with respect to the rotated ordering, then  $q < p$ ..."

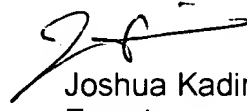
Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on  
10 Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joshua Kading whose telephone number is (571) 272-3070. The examiner can normally be reached on M-F: 8:30AM-5PM.

15 If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau Nguyen can be reached on (571) 272-3126. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

- 5 For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Joshua Kading  
Examiner  
Art Unit 2661

10 March 14, 2005

  
**BOB PHUNKULH**  
**PRIMARY EXAMINER**